

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0001970
Owner:	Clariant LSM (Missouri) Inc.
Address:	2460 West Bennett Street, Springfield, MO 65807
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Clariant LSM (Missouri) Inc.
Facility Address:	2460 West Bennett Street, Springfield, MO 65807
Legal Description:	NE ¼, SW ¼, Sec. 27, T29N, R22W, Greene County
Receiving Stream:	<u>Outfall #001</u> – Wilson Creek (C); <u>Outfall #002</u> – Fassnight Creek (P)
First Classified Stream and ID:	<u>Outfall #001</u> – Wilson Creek (C) (02375); <u>Outfall #002</u> – Fassnight Creek (P) (03370)
USGS Basin & Sub-watershed No.:	(11010002-020001)

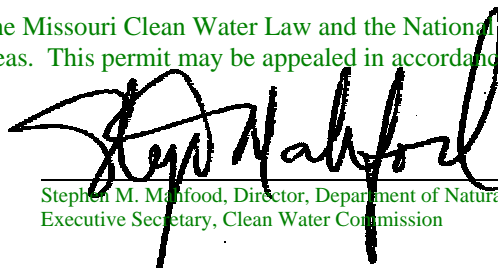
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 – Chemical and Pharmaceutical Plant - SIC #2833
Non-contact cooling water / storm water runoff from west side of facility.
Design flow is 40,000 gallons per day.
Actual flow is 16,700 gallons per day.
Outfall #002 – Chemical and Pharmaceutical Plant – SIC #2833
Storm water runoff from east side of facility.
Flow is dependent upon precipitation.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

October 9, 2003
Effective Date


Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

October 8, 2008
Expiration Date

R. Bruce Martin, Director, Southwest Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 5	
PERMIT NUMBER MO-0001970						
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until November 30, 2007. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001 & #002</u> (Note 1)						
Flow	MGD	*		*	once/weekday**	instantaneous estimate
Temperature	°C (°F)	***		32° (90°)	once/discharge/ quarter	grab *****
Total Suspended Solids	mg/L	70		35	once/discharge/ quarter	****
Chemical Oxygen Demand	mg/L	120		90	once/discharge/ quarter	grab *****
Oil & Grease	mg/L	15		10	once/discharge/ quarter	grab *****
Rainfall	inches/day	*		*	*****	grab *****
pH – Units	SU	*****		*****	once/discharge/ quarter	grab *****
Phosphorus as P	mg/L	*		*	once/discharge/ quarter	grab *****
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0001970	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective December 1, 2007 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001 & #002</u> (Note 1)						
Flow	MGD	*		*	once/weekday**	instantaneous estimate
Temperature	°C (°F)	***		32° (90°)	once/discharge/ quarter	grab *****
Total Suspended Solids	mg/L	70		35	once/discharge/ quarter	****
Chemical Oxygen Demand	mg/L	120		90	once/discharge/ quarter	grab *****
Oil & Grease	mg/L	15		10	once/discharge/ quarter	grab *****
Rainfall	inches/day	*		*	*****	grab *****
pH – Units	SU	*****		*****	once/discharge/ quarter	grab *****
Phosphorus as P	mg/L			0.5	once/discharge/ quarter	grab *****
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2008</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Once per weekday means: Monday, Tuesday, Wednesday, Thursday, and Friday.
- *** See D. Other Requirements.
- **** A composite sample is made up from a minimum of four grab samples collected within a 24-hour period with a minimum of one hour between each grab sample.
- ***** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0 – 9.0 pH units.
- ***** One grab sample taken within the first hour of a discharge event.
- ***** This value shall represent the total rainfall amount occurring at this location during each 24 hour period in which rainfall occurs.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 1 – Each outfall is to be sampled separately.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
4. Report as no-discharge when a discharge does not occur during the report period.
 5. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;

C. SPECIAL CONDITIONS (continued)

- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
6. The frequency of phosphorus monitoring requirement may be reduced by the Department after a review of monitoring data demonstrates that the mass and / or concentration of phosphorus in the discharge is reasonably predictable based on flow and other parameters.

D. Other Requirements

Beyond the mixing zone, water contaminants shall not raise or lower the temperature of the stream more than five degrees (5°F). Water contaminants shall not cause or contribute to stream temperature in excess of ninety degrees (90°F).

Note: Water contaminants are defined in 10 CSR 20-2.010(60).

E. SCHEDULE OF COMPLIANCE

Please note that as per 10 CSR 20-7.015(3)(G), effective November 30, 1999:

In addition to other requirements in this section, discharges to Table Rock Lake watershed, defined as hydrologic units numbered 11010001 and 11010002, shall not exceed five-tenths milligrams per liter (0.5 mg/l) of phosphorus as a monthly average according to the following schedule:

Any existing discharge with a design flow of twenty-two thousand five hundred gallons per day (22,500 gpd) or greater but less than 0.1 MGD shall comply no later than eight (8) years after the effective date of this rule. (Please note that the effective date of this rule is November 30, 1999, therefore eight (8) years after the effective date is December 1, 2007.)

- 1. Documentation to show that this facility is capable of meeting the five-tenths milligrams per liter (0.5 mg/l) monthly average phosphorus effluent limitation that will become effective December 1, 2007 shall be submitted to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807, within 180 days of the effective date of this permit. If this facility is not capable of meeting the aforementioned effluent limitation then a complete application for construction permit for the facility upgrades required to meet the aforementioned phosphorus limits shall be submitted to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807, no later than April 1, 2006.
- 2. If a construction permit was required by the above then complete construction of facility upgrades and submit a complete application for a modified Missouri State Operating Permit to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807, within 30 days of completion.